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### NOTICE OF ALLOWANCE AND FEE(S) DUE

47744

7590

02/07/2008

02/07/2008

EXAMINER
SUCH, MATTHEW W

ART UNIT

PAPER NUMBER

2891

DATE MAILED: 02/07/2008

WINSTEAD PC WINSTEAD PC P. O. BOX 50784 DALLAS, TX 75201

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/632,948      | 08/01/2003  | James M. Tour        | 11321-P022WUD2      | 4978             |

TITLE OF INVENTION: PROCESS FOR ATTACHING MOLECULAR WIRES AND DEVICES TO CARBON NANOTUBES AND COMPOSITIONS THEREOF

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES          | \$720         | \$300               | \$0                  | \$1020           | 05/07/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

| maintenance fee notifica  | correspondence including defected of the delow or directed of the tions.  ENCE ADDRESS (Note: Use Bl  | •  | No<br>Fe  | ote: A certificate of   | mailin  | g can only be used for   | correspondence address as<br>rate "FEE ADDRESS" for<br>domestic mailings of the<br>or any other accompanying                        |
|---|---|--|---|---|---|--|---|
|   |   |  | pa  | pers. Each addition   | al paper  | , such as an assignmentiling or transmission.  | nt or formal drawing, must  |
| WINSTEAD F<br>WINSTEAD PC<br>P. O. BOX 5078   | 2<br>34   | II<br>St<br>ad   | Ce<br>nereby certify that the<br>ates Postal Service of<br>dressed to the Mai   | rtificate<br>nis Fee(<br>with suf<br>1 Stop   | of Mailing or Transı                            | deposited with the United t class mail in an envelope  |   |
| DALLAS, TX 7  | 5201  |  |   |   |   |  | (Depositor's name)  |
|   |   |  |   |   |   |  | (Signature)   |
|   |   |  | L   |   |   |  | (Date)  |
| APPLICATION NO.   | FILING DATE   |  | FIRST NAMED INVENTO   | R   | ATTC  | RNEY DOCKET NO.  | CONFIRMATION NO.  |
| 10/632,948  | 08/01/2003  | -  | James M. Tour   |   | 11  | 321-P022WUD2   | 4978  |
| TITLE OF INVENTION THEREOF  | N: PROCESS FOR ATI  | 'ACHING MOLECULAI  | R WIRES AND DEVICE  | ES TO CARBON N  | IANOT   | UBES AND COMPO   | SITIONS   |
| APPLN. TYPE   | SMALL ENTITY  | ISSUE FEE DUE  | PUBLICATION FEE DUE   | E PREV. PAID ISSU   | E FEE   | TOTAL FEE(S) DUE   | DATE DUE  |
| nonprovisional  | YES   | \$720  | \$300   | \$0   |   | \$1020   | 05/07/2008  |
| EXAM  | IINER   | ART UNIT   | CLASS-SUBCLASS  |   |   |  |   |
| SUCH, MA  | TTHEW W   | 2891   | 423-447300  |   |   |  |   |
| "Fee Address" ind<br>PTO/SB/47; Rev 03-(<br>Number is required.  3. ASSIGNEE NAME A<br>PLEASE NOTE: Un  | ND RESIDENCE DATA<br>less an assignee is ident<br>h in 37 CFR 3.11. Com                               | (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.  THE PATENT (print or type)  e data will appear on the patent. If an assignee is identified below, the document has been filed for DT a substitute for filing an assignment.  (B) RESIDENCE: (CITY and STATE OR COUNTRY) |   |   |   |  |   |
| Please check the appropriate.  4a. The following fee(s)  Issue Fee  Publication Fee (N  | riate assignee category or  | permitted)   |   | Individual Cease first reapply a . ard. Form PTO-203  | orporat<br>ny prev<br>3 is atta                 | on or other private gro riously paid issue fee s   |   |
| 5. Change in Entity Sta   |   |  | overpayment, to Dep   | posit Account Numb  | er  | (enclose ar  | extra copy of this form).   |
| _ ~ .   | s SMALL ENTITY state  | · · · · · · · · · · · · · · · · · · ·  | b. Applicant is no lo   | onger claiming SMA  | LL EN   | ΓΙΤΥ status. See 37 CF   | FR 1.27(g)(2).  |
| NOTE: The Issue Fee an interest as shown by the   | d Publication Fee (if req<br>records of the United Sta  | uired) will not be accepte<br>ites Patent and Trademark  | d from anyone other than<br>Office.   | the applicant; a reg  | istered   | attorney or agent; or th   | e assignee or other party in  |
| Authorized Signature  |   |  |   | Date  |   |  |   |
| Typed or printed name   |   |  |   | _   |   |  |   |
| This collection of inform<br>an application. Confiden<br>submitting the complete<br>this form and/or suggest<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DC | ER 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>2 USPTO. Time will vary<br>rden, should be sent to th<br>O NOT SEND FEES OR   | on is required to obtain on 1.14. This collection is ear depending upon the ind the Chief Information Offic COMPLETED FORMS | r retain a benefit by<br>stimated to take 12<br>ividual case. Any c<br>cer, U.S. Patent and<br>IO THIS ADDRES | the pub<br>minutes<br>ommen<br>Trader<br>S. SEN | lic which is to file (and<br>s to complete, includin<br>s on the amount of tin<br>nark Office, U.S. Depa<br>D TO: Commissioner f | by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450, |

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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| APPLICATION NO. FILING DATE       |    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.    | CONFIRMATION NO. |  |
|-----------------------------------|----|----------------------|------------------------|------------------|--|
| 10/632,948 08/01/2003             |    | James M. Tour        | 11321-P022WUD2 4978    |                  |  |
| 47744 7590 02/07/2008             |    |                      | EXAMINER               |                  |  |
| WINSTEAD PC                       |    |                      | SUCH, MATTHEW W        |                  |  |
| WINSTEAD PC                       |    |                      | ART UNIT               | PAPER NUMBER     |  |
| P. O. BOX 50784<br>DALLAS, TX 752 | Λ1 |                      | 2891                   |                  |  |
| DALLAS, IA 732                    | O1 |                      | DATE MAILED: 02/07/200 | 8                |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 520 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 520 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|  | Application No.  | Applicant(s)   |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
| Notice of Allowability   | 10/632,948<br><b>Examiner</b>  | TOUR ET AL.  Art Unit  |  |  |  |
| •  |  |  |  |  |  |
|  | MATTHEW W. SUCH  | 2891   |  |  |  |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this appropriate communication GHTS. This application is subject to | plication. If not included will be mailed in due course. <b>THIS</b> |  |  |  |
| 1. 🔀 This communication is responsive to Applicant amendment   | t filed 9 November 2007.   |  |  |  |  |
| 2. $\square$ The allowed claim(s) is/are $\underline{69-73,85,86,130-132}$ and $\underline{136}$ .   |  |  |  |  |  |
| 3. Acknowledgment is made of a claim for foreign priority ur   | nder 35 U.S.C. § 119(a)-(d) or (f).  |  |  |  |  |
| a) ☐ All b) ☐ Some* c) ☐ None of the:  |  |  |  |  |  |
| <ol> <li>Certified copies of the priority documents have</li> </ol>  | been received.   |  |  |  |  |
| <ol><li>Certified copies of the priority documents have</li></ol>  | been received in Application No  | ·  |  |  |  |
| <ol><li>Copies of the certified copies of the priority do</li></ol>  | cuments have been received in this   | national stage application from the                                  |  |  |  |
| International Bureau (PCT Rule 17.2(a)).   |  |  |  |  |  |
| * Certified copies not received:   |  |  |  |  |  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  |  | complying with the requirements                                      |  |  |  |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give  |  |  |  |  |  |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") mus   | et be submitted.   |  |  |  |  |
| (a) ☐ including changes required by the Notice of Draftspers   | on's Patent Drawing Review ( PTO-  | 948) attached  |  |  |  |
| 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date   |  |  |  |  |  |
| (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of   |  |  |  |  |  |
| Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t   |  |  |  |  |  |
| DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT  | sit of BIOLOGICAL MATERIAL n   | nust be submitted. Note the  |  |  |  |
|  |  |  |  |  |  |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892)  | 5. ☐ Notice of Informal P  | atent Application  |  |  |  |
| 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)   | 6. ☐ Interview Summary   |  |  |  |  |
| 3. ☐ Information Disclosure Statements (PTO/SB/08),  | Paper No./Mail Dat<br>7.   | e  |  |  |  |
| Paper No./Mail Date  |  |  |  |  |  |
| 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material   |  | ent of Reasons for Allowance   |  |  |  |
|  | 9.   |  |  |  |  |
|  | MWS  |  |  |  |  |
|  |  |  |  |  |  |

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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9 November 2007 has been entered.

#### Election/Restrictions

2. This application is in condition for allowance except for the presence of claims 74-78, 94-96 and 133-135 directed to an invention non-elected without traverse. Accordingly, claims 74-78, 94-96 and 133-135 been cancelled.

#### Response to Arguments

3. Applicant's arguments, Page 7 (Paragraph 2) of the Remarks, filed 9 November 2007, with respect to the rejection of claims 69-73, 85-86 and 130-132 as presented in the Office Action dated 20 October 2006 have been fully considered and are persuasive. The rejection of claims 69-73, 85-86 and 130-132 has been withdrawn.

#### Allowable Subject Matter

4. Claims 69-73, 85-86, 130-132 and 136 are allowed.

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switch thereto.

5. The following is an examiner's statement of reasons for allowance: A search of the prior art does not disclose or reasonably suggest derivatizing a carbon nanotube with a diazonium specie and covalently attaching a molecular wire or switch thereto. The closest prior art of Yamamoto ('076) teaches derivatizing fullerenes with a diazo species, but does not teach or reasonably a diazonium specie (because a diazonium specie is part of a salt with a counter anion

and diazo is not part of a salt with a counter anion) and covalently attaching a molecular wire or

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **Contact Information**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW W. SUCH whose telephone number is (571)272-8895. The examiner can normally be reached on Monday - Friday 9AM-5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bradley W. Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2891

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew W. Such Examiner Art Unit 2891

MWS 1/30/08

/BRADLEY W BAUMEISTER/ Supervisory Patent Examiner, Art Unit 2891